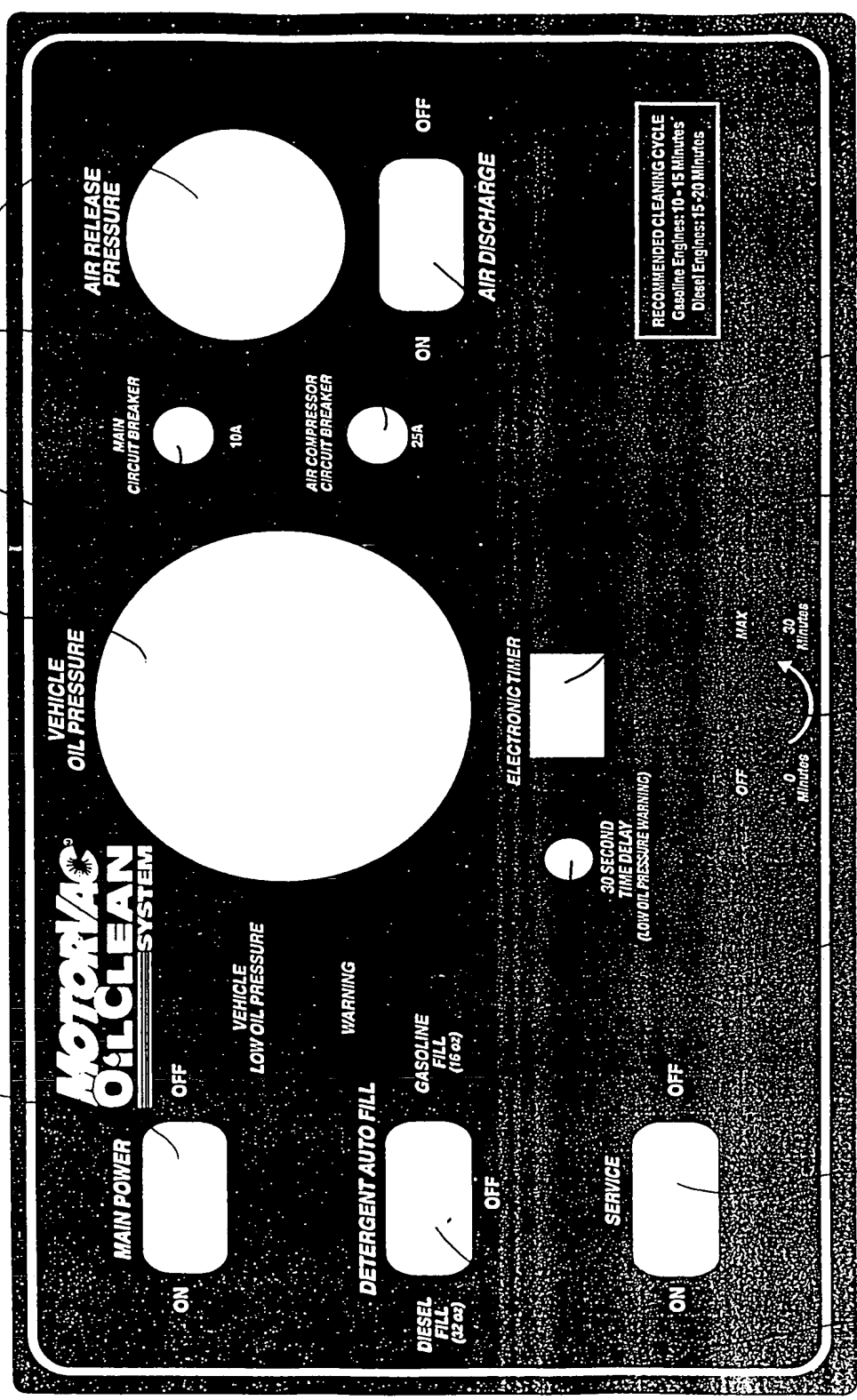


The schematic diagram illustrates a vehicle oil change system 100. The system is divided into two main sections by a dashed line. The upper section, enclosed in a dashed box, contains the oil delivery components: a Solution Tank 104, a Pump 106, an Oil Pressure Gauge 148, a Vehicle Engine 102, and a Manifold 126. The lower section contains the air supply components: an Air Storage Tank 156, an Air Compressor 164, an Air Pressure Gauge 162, an Air Regulator 170, an Air Release Solenoid 132, and a Timed Air Release Control 142. The oil flow path starts from the Solution Tank 104 through line 108 to the Pump 106, then through line 110 and valve 113 to line 114, which enters the Manifold 126. The Manifold 126 is connected to the Vehicle Engine 102 via line 122 and valve 120. A return line 124 connects the engine back to the Manifold 126. The Manifold 126 is also connected to a Low Oil Pressure Switch 130 via line 136. The Air Storage Tank 156 and Air Compressor 164 are connected to a central Air Manifold 158 via lines 160 and 168 respectively. The Air Manifold 158 is connected to an Air Pressure Gauge 162 via line 166 and to an Air Regulator 170 via line 174. The Air Regulator 170 is connected to the Air Release Solenoid 132 via line 176. The Air Release Solenoid 132 is connected to the Timed Air Release Control 142 via line 144. The Timed Air Release Control 142 is connected to the Manifold 126 via line 155 and valve 152. A return line 151 connects the Manifold 126 back to the Air Manifold 158. The Oil Pressure Gauge 148 is connected to the Manifold 126 via line 146 and valve 134. The Vehicle Engine 102 is connected to the Manifold 126 via line 128 and valve 124.

Figure 2A 202- 200



10055544 032002

Figure 2B

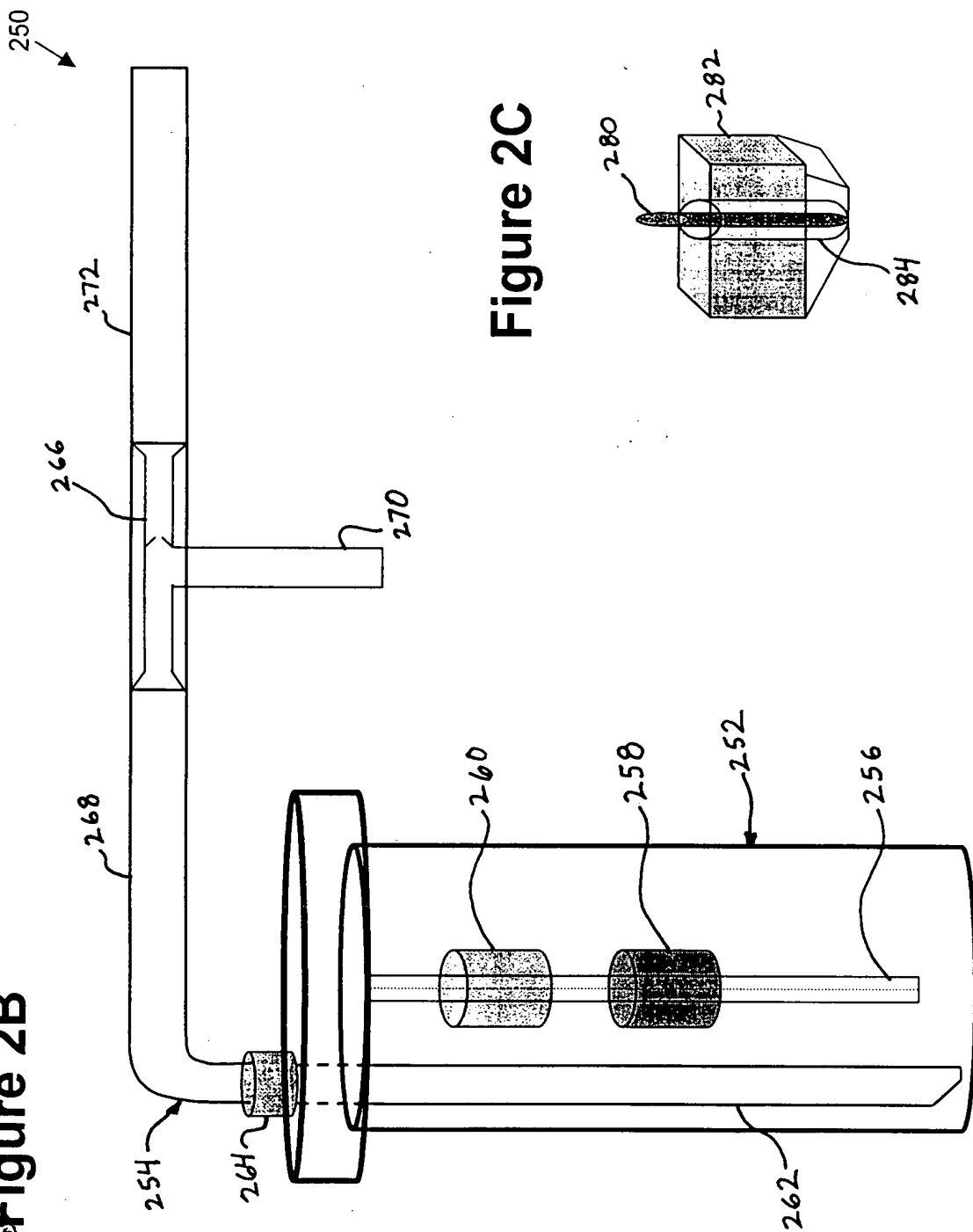
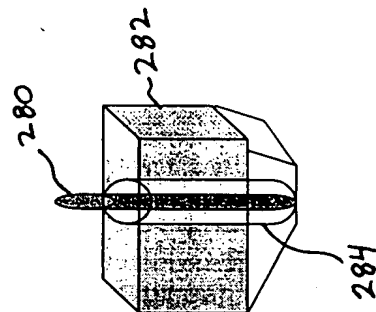
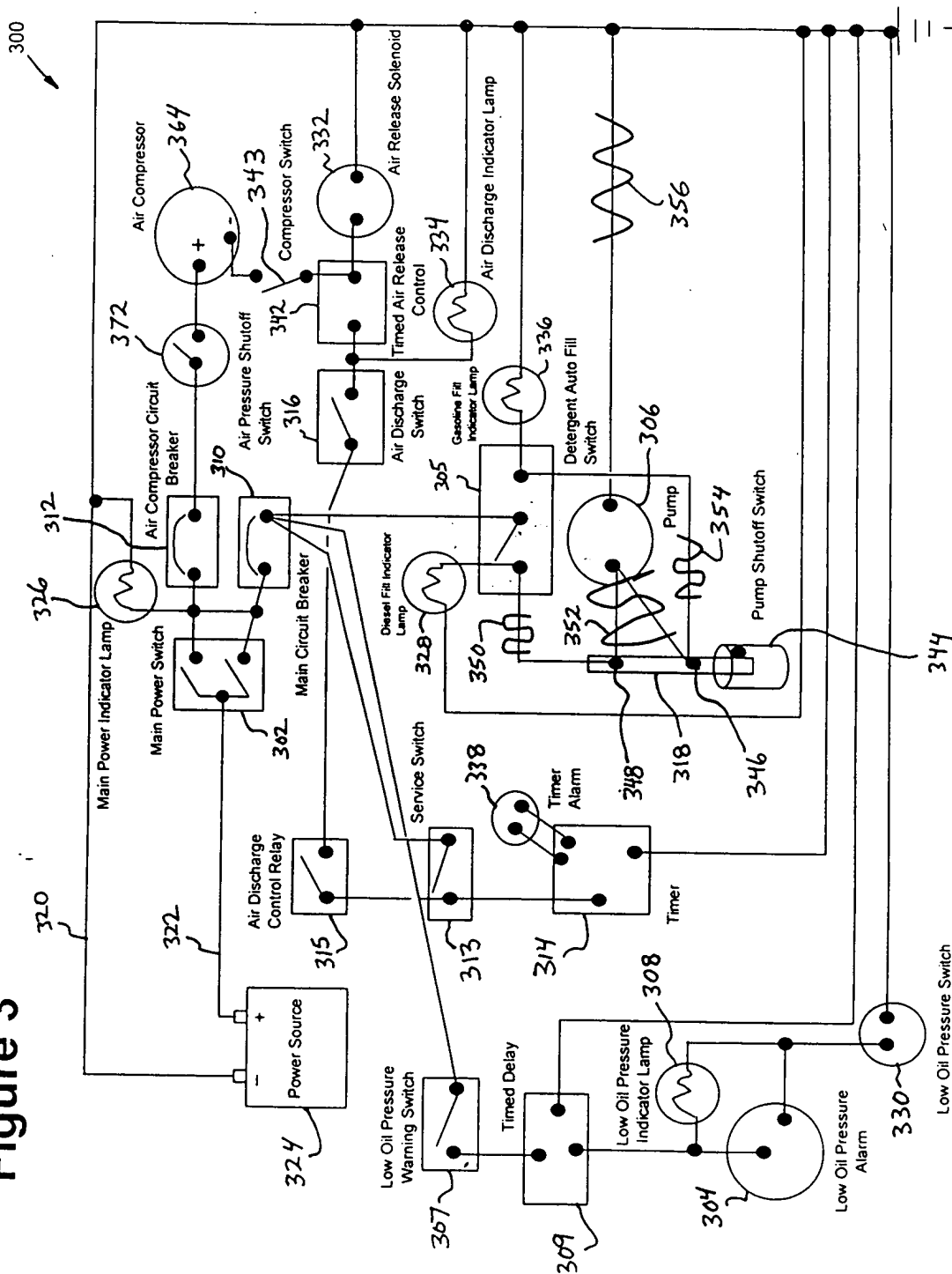


Figure 2C



300



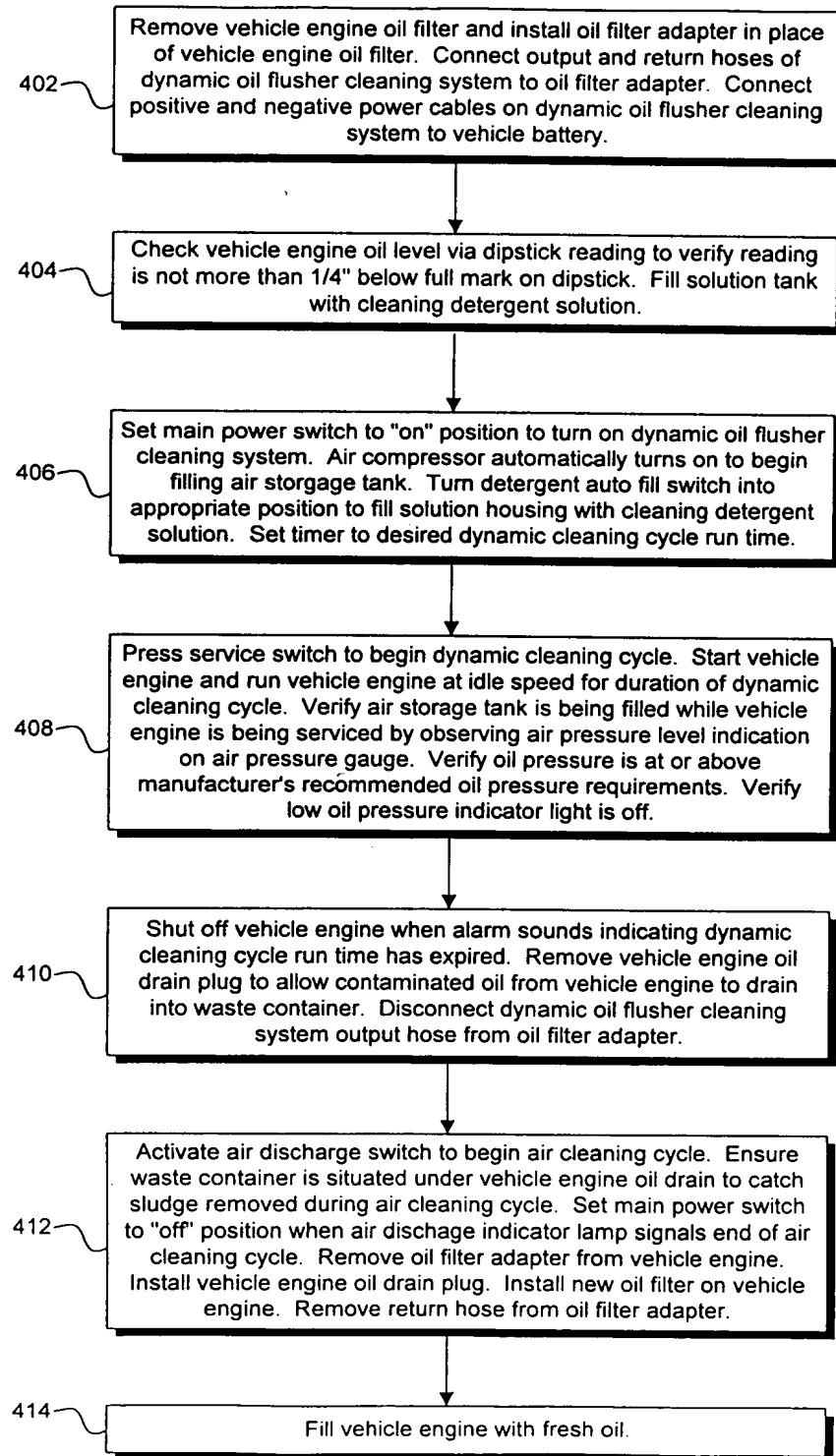
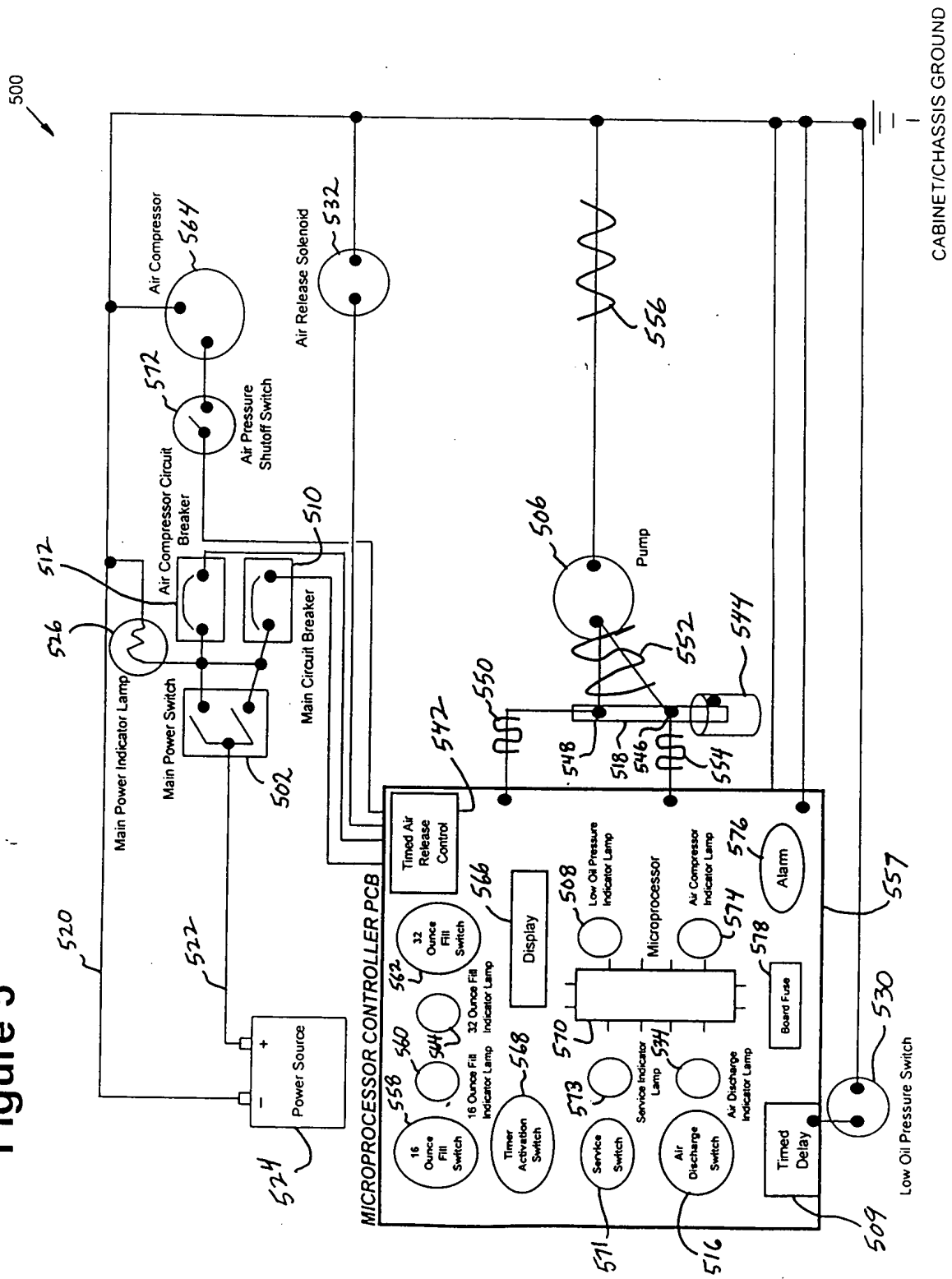


Figure 5



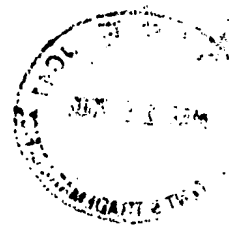


Figure 6B

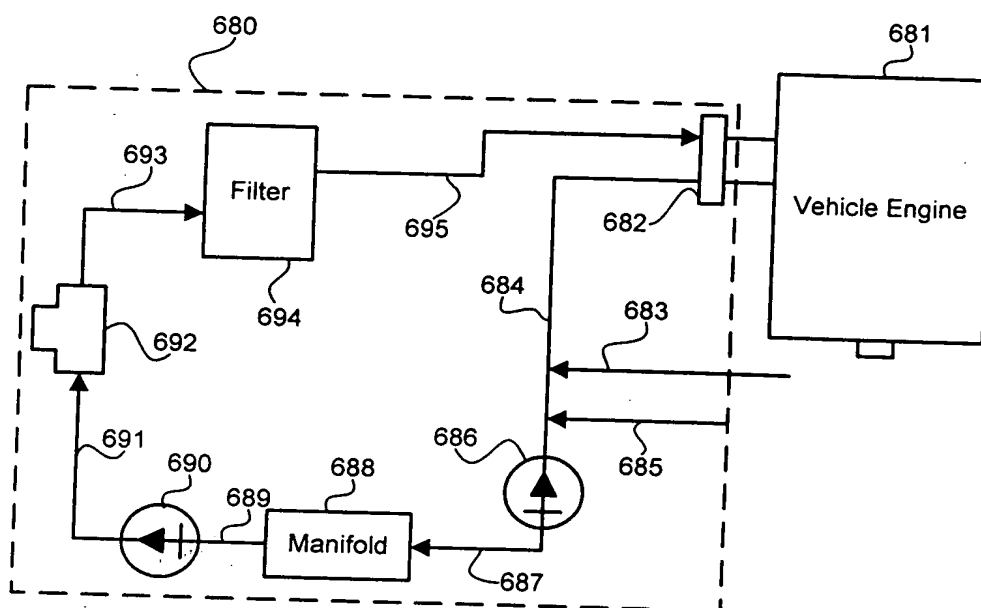
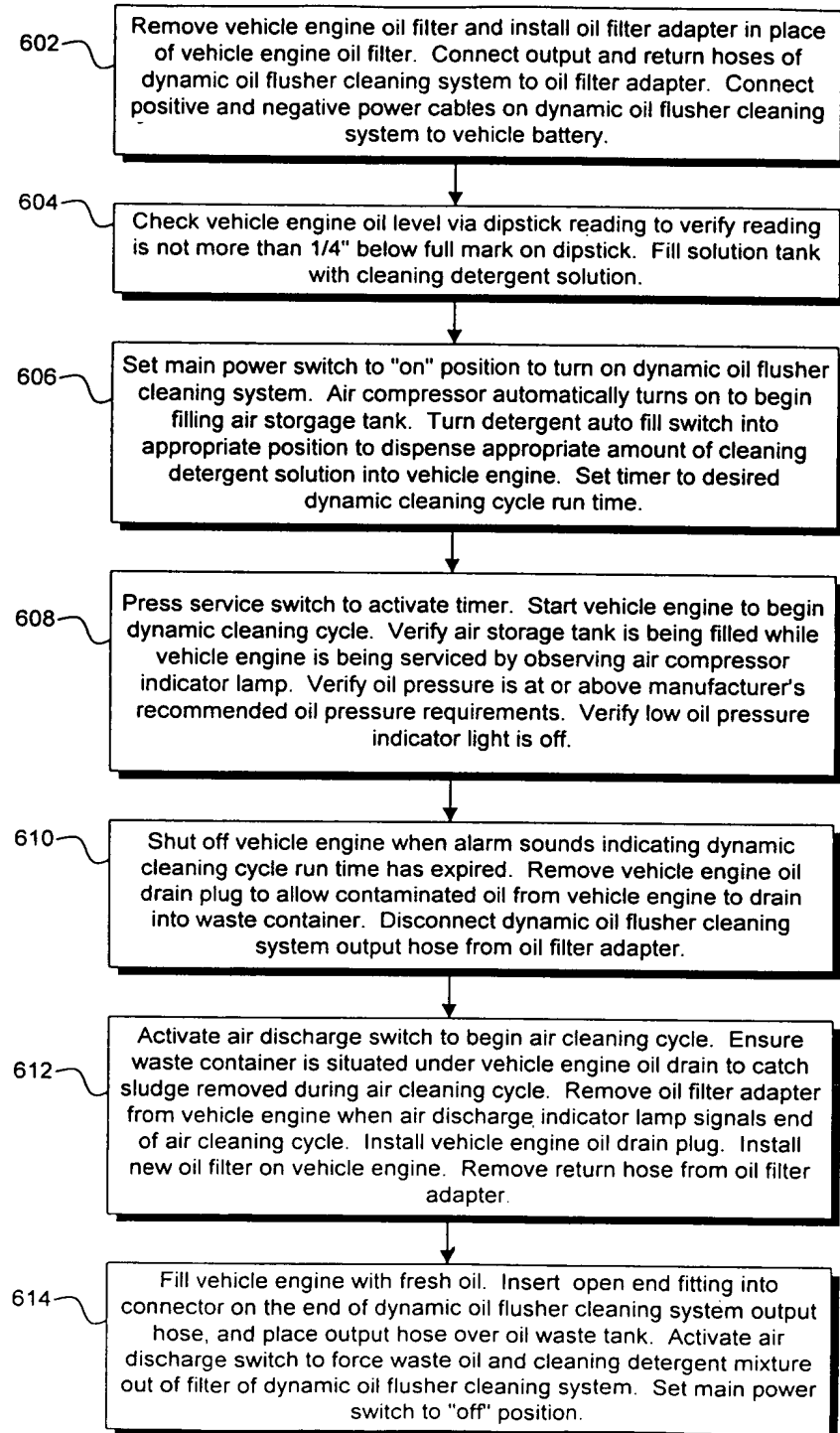


Figure 6C



600

Figure 7A

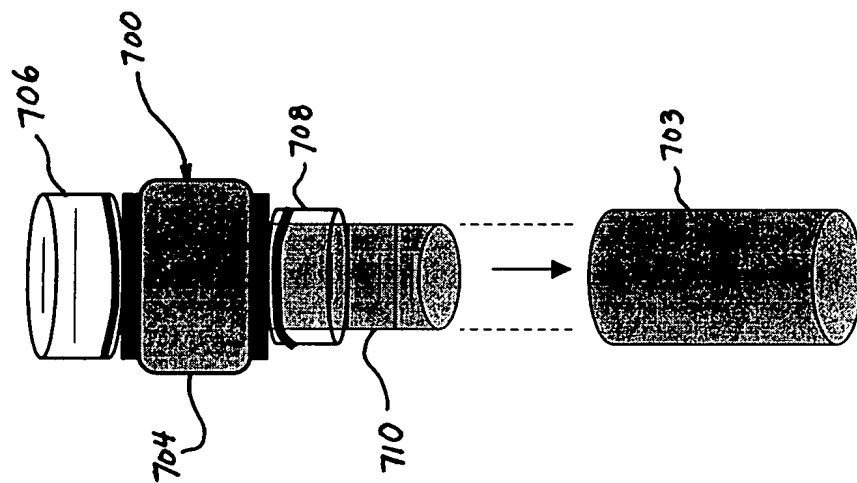
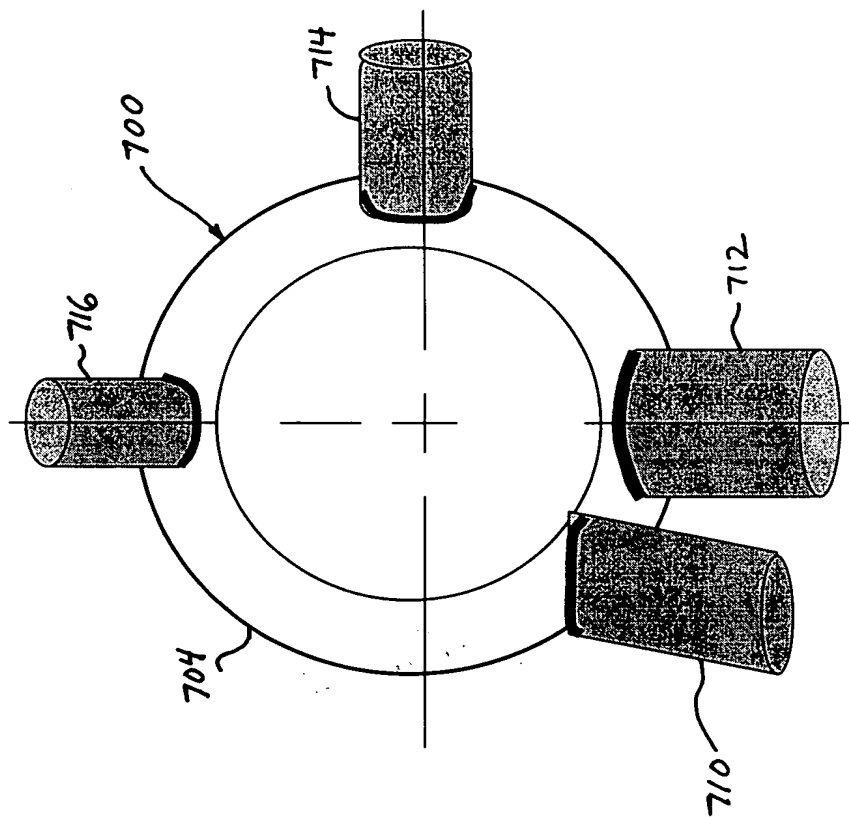


Figure 7B



800

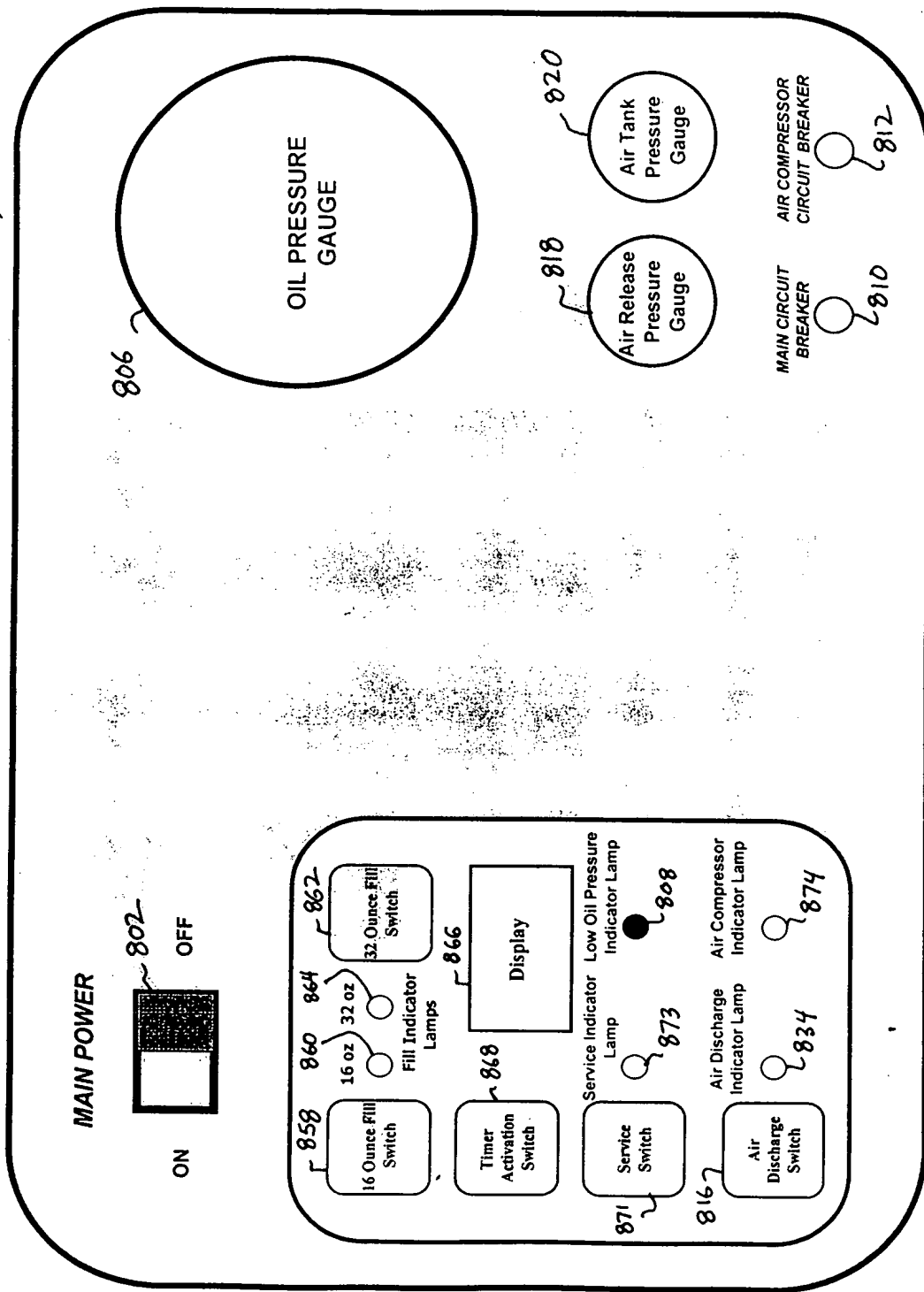


Figure 9

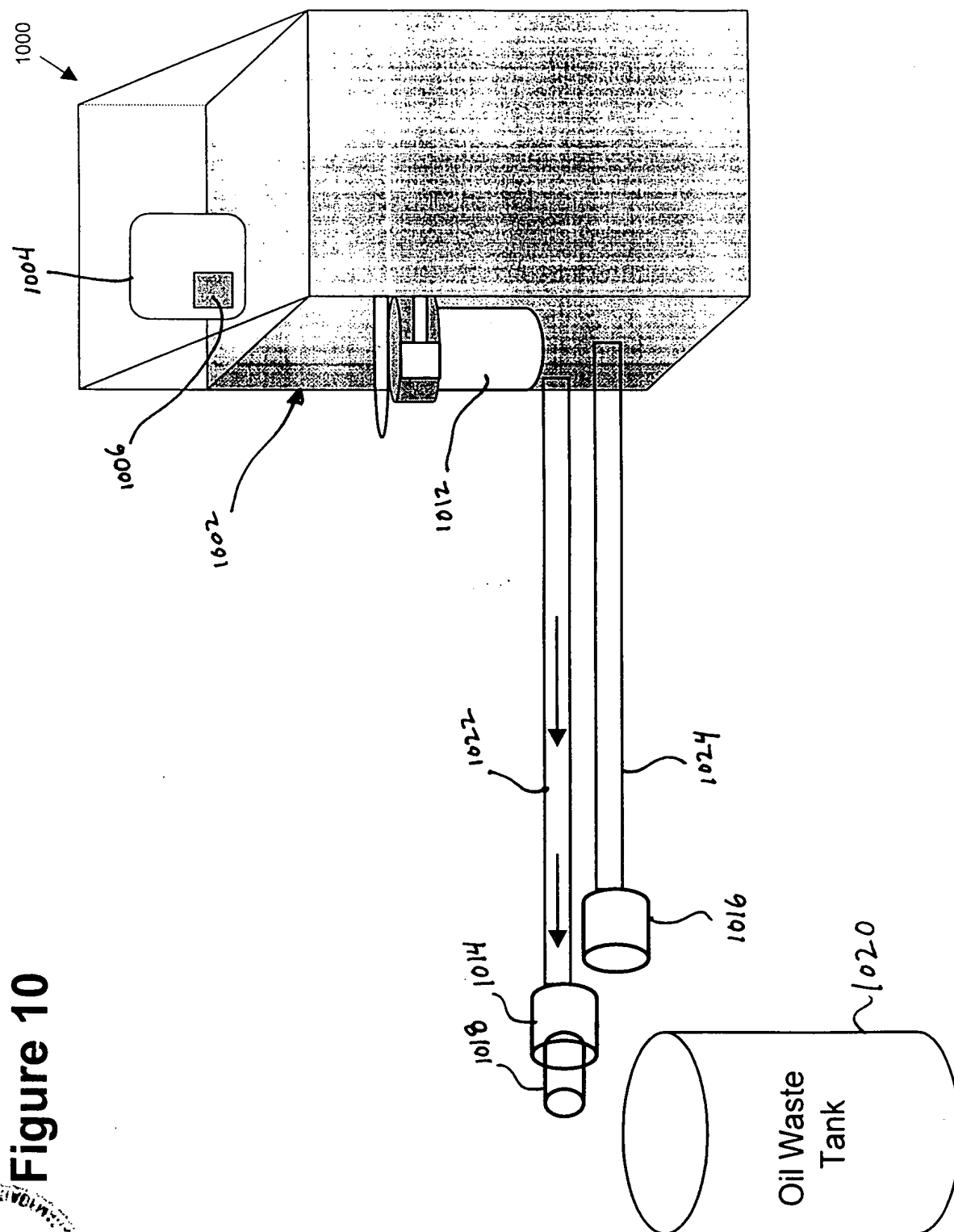


Figure 10

